

TRANSMITTAL FORM

Application Serial Number	10/723,332
Filing Date	November 25, 2003
First Named Inventor	Williams
Group Art Unit	2859
Examiner Name	Not yet assigned
Attorney Docket No.	DPL-043PR
Patent No.	Not applicable
Issue Date	Not applicable

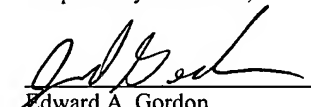
ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets _____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copis of IDS Citations C1-C5	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

CORRESPONDENCE ADDRESS

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SIGNATURE BLOCK

Respectfully submitted,

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Date: March 3, 2004
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PATENT
Atty. Docket No.: DPL-043
(6209/53)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Williams et al.

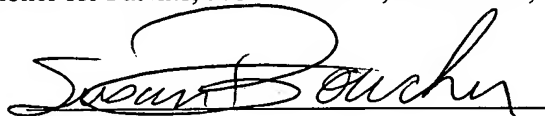
APPLICATION NO. 10/723,332 GROUP NO. 2859

FILING DATE: November 25, 2003 EXAMINER: Not yet assigned

TITLE: MEMs Based Thermogravimetric Analyzer

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any documents referred to as enclosed herein, are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 3 day of March, 2004.


Susan Boucher

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

Transmittal Form (1 pg.); Information Disclosure Statement (2 pgs.); PTO Form 1449 (2 pgs.); copies of cited references C1-C5; and a return-receipt postcard.



PATENT
Attorney Docket No. DPL-043

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Williams et al.
APPLICATION NO. 10/723,332 GROUP NO. 2859
FILING DATE: November 25, 2003 EXAMINER: Not yet assigned
TITLE:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

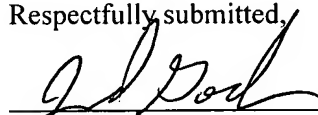
- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: March 3, 2004
Reg. No. 54,130

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Respectfully submitted,



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FORM PTO - 159

**INFORMATION DISCLOSURE
STATEMENT**

ATTORNEY DOCKET NO. DPL-043

APPLICANT(S): Williams et al.

APPLICATION NO. 10/723,332

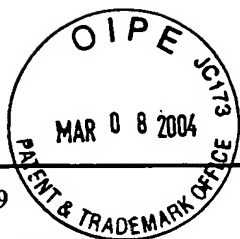
FILING DATE: November 25, 2003 GROUP: 2859

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,783,174	11/08/88	Gmelin et al.	374	33	08/18/86
	A2	5,165,792	11/24/92	Crowe et al.	374	10	03/01/91
	A3	5,212,988	5/25/93	White et al.	73	599	10/10/91
	A4	5,288,147	02/22/94	Schaefer et al.	374	10	11/09/92
	A5	5,416,322	5/16/95	Chace et al.	250	288	04/21/94
	A6	5,842,788	12/01/98	Danley et al.	374	12	10/31/97
	A7	6,079,873	06/27/00	Cavicchi et al.	374	10	06/30/98
	A8	6,106,149	08/22/00	Smith	374	31	12/02/98
	A9	6,189,367	02/20/01	Smith et al.	73	19.03	12/02/98
	A10	6,190,035	02/20/01	Smith	374	31	05/26/00
	A11	6,238,085	05/29/01	Higashi et al.	374	10	12/31/98
	A12	6,354,732	03/12/02	Casati et al.	374	14	07/18/00
	A13	6,331,074	12/18/01	Kimura	374	10	01/16/98
	A14	6,370,939	04/16/02	Smith et al.	73	19.03	02/16/01
	A15	6,439,765	08/27/02	Smith	374	31	01/23/01
	A16	2001/0008081	07/19/01	Smith et al.	73	19.03	02/16/01
	A17	2001/0012312	08/09/01	Smith	374	31	01/23/01
	A18	2002/0003830	01/10/02	Tanaka et al.	374	31	01/12/01
	A19	2003/0043880	03/06/03	Meyler et al	374	32	06/28/02
	A20	2003/0033876	02/20/03	Roukes et al.	73	580	05/03/02

FOREIGN PATENT DOCUMENTS

[illegible]



SHEET 2 OF 2

FORM PTO – 1449		ATTORNEY DOCKET NO. DPL-043
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Williams et al.
		APPLICATION NO. 10/723,332
		FILING DATE: November 25, 2003 GROUP: Not yet assigned
OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C1	RJ LEE microsystems™, <u>NanoScale 9100™ User's Manual.</u>
	C2	SAW Sensor Seminar, Helsinki University of Technology (HUT), Material Physics Lab (May 2002).
	C3	TA Instruments "Modulated Thermogravimetric Analysis: A new approach for obtaining kinetic parameters."
	C4	TA Instruments brochure TGA 2050 Thermogravimetric Analyzer.
	C5	TA Instruments, "Thermogravimetric Analysis" (TGA)," slide presentation.